

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P332848-927

Luminaire Tested: **S124DIW-S1195D1050U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332848-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIW-S1195D1050U927-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1050 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7094.6 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

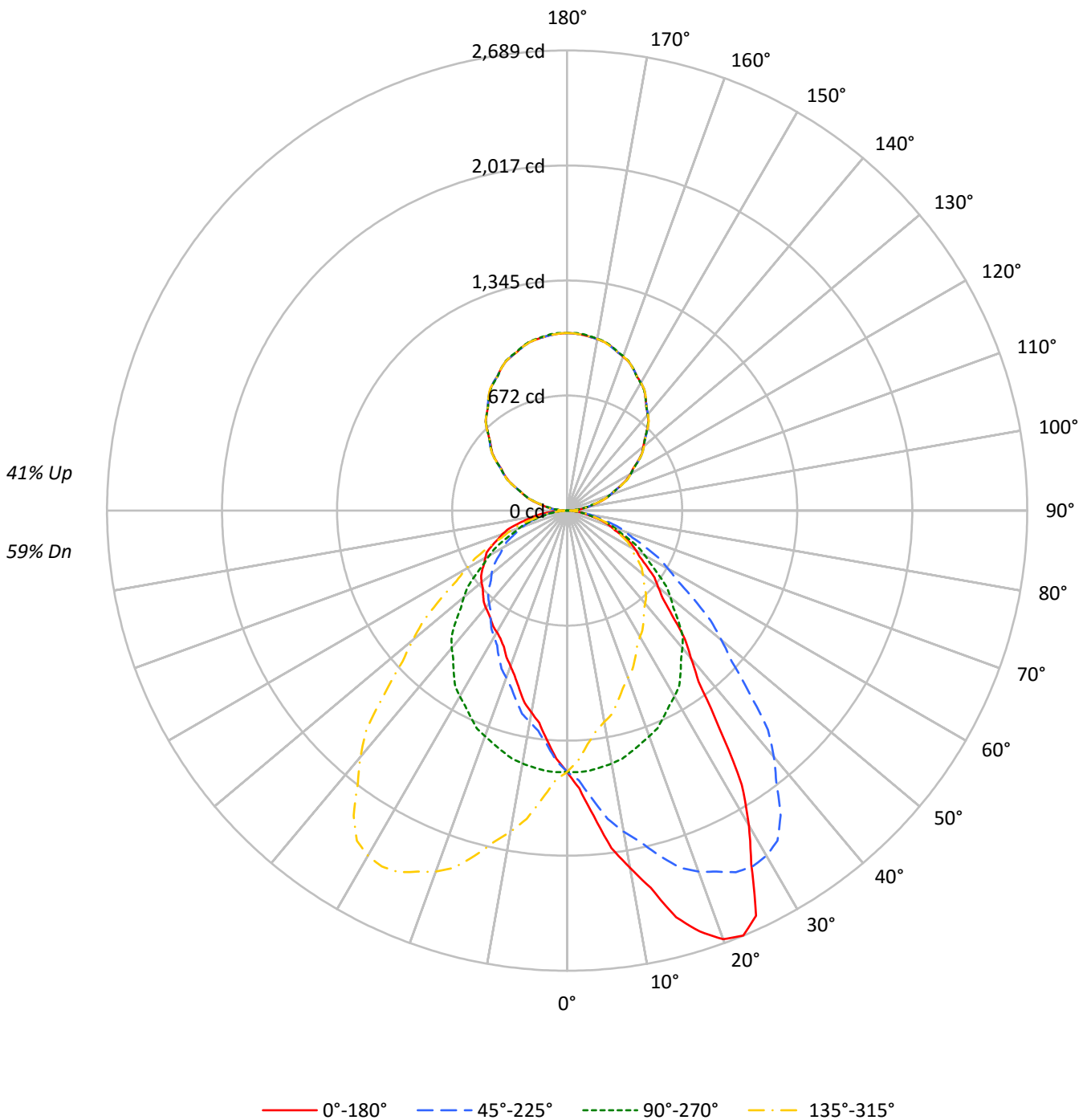
Input Watts (W): 67.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	59
1	100	96	92	89	93	90	86	83	78	76	73	67	66	64	58	56	55	51
2	91	84	78	73	85	79	73	69	69	65	61	60	57	54	51	49	47	43
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	45	43	40	37
4	77	66	58	52	71	62	55	49	54	49	44	47	43	40	41	38	35	32
5	70	59	51	45	66	55	48	43	49	43	38	43	38	34	37	33	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	30	34	30	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	31	27	31	27	24	22
8	56	44	36	30	52	41	34	29	37	31	27	32	28	24	28	25	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18
10	49	37	29	25	46	35	28	24	31	25	22	28	23	20	24	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12327	12327	12327	12327
5°	14515	12358	10907	12358
10°	17379	12304	9820	12304
15°	20563	12179	9018	12179
20°	22898	12052	8303	12052
25°	23267	11866	7808	11866
30°	19799	11686	7652	11686
35°	15221	11395	7655	11395
40°	11864	11052	7798	11052
45°	9893	10535	7929	10535
50°	8706	9905	8199	9905
55°	7976	9151	8528	9151
60°	7476	8477	8925	8477
65°	6959	7721	9255	7721
70°	6359	6973	9465	6973
75°	5680	6135	9351	6135
80°	4761	5026	9056	5026
85°	3511	3631	8670	3631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.7	2.1
10°-20°	458.5	6.5
20°-30°	727.0	10.2
30°-40°	809.1	11.4
40°-50°	736.5	10.4
50°-60°	601.9	8.5
60°-70°	429.7	6.1
70°-80°	236.6	3.3
80°-90°	67.7	1.0
90°-100°	68.4	1.0
100°-110°	202.7	2.9
110°-120°	344.1	4.9
120°-130°	453.7	6.4
130°-140°	509.6	7.2
140°-150°	500.8	7.1
150°-160°	421.2	5.9
160°-170°	280.2	3.9
170°-180°	98.1	1.4
0°-30°	1334.3	18.8
0°-40°	2143.4	30.2
0°-60°	3481.7	49.1
0°-90°	4215.7	59.4
90°-120°	615.3	8.7
90°-150°	2079.4	29.3
90°-180°	2879.0	40.6
0°-180°	7094.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1527	1527	1527	1527	1527	
5°	1791	1525	1346	1525	1791	182
15°	2460	1457	1079	1457	2460	695
25°	2612	1332	877	1332	2612	1152
35°	1544	1156	777	1156	1544	980
45°	866	923	694	923	866	683
55°	567	650	606	650	567	512
65°	364	404	484	404	364	361
75°	182	197	300	197	182	194
85°	38	39	94	39	38	47
90°	24	2	24	2	24	14
95°	63	48	63	48	63	66
105°	196	187	196	187	196	206
115°	347	350	347	350	347	343
125°	506	510	506	510	506	451
135°	658	657	658	657	658	508
145°	799	798	799	798	799	500
155°	914	915	914	915	914	421
165°	994	996	994	996	994	280
175°	1031	1036	1031	1036	1031	98
180°	1038	1038	1038	1038	1038	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1625.0	1624.4	1619.5	1618.4	1614.9	1610.3	1609.3	1601.2	1585.0	1577.4	1575.4
5°	1791.2	1803.9	1787.4	1784.2	1782.3	1761.5	1750.7	1738.0	1709.0	1691.9	1678.6
7.5°	1989.6	1991.1	1983.9	1978.1	1962.0	1943.8	1916.4	1887.4	1852.7	1816.6	1789.5
10°	2120.1	2125.2	2116.9	2115.7	2083.4	2063.2	2022.7	1988.5	1949.3	1905.7	1865.8
12.5°	2257.7	2250.7	2246.5	2219.4	2213.4	2176.5	2129.5	2094.3	2033.8	1983.6	1930.6
15°	2460.4	2446.5	2437.6	2400.3	2381.9	2330.7	2280.8	2242.2	2163.1	2087.9	2030.9
17.5°	2579.3	2593.2	2572.7	2557.4	2510.0	2474.1	2423.0	2342.0	2280.1	2186.7	2114.8
20°	2665.3	2666.6	2655.2	2639.4	2602.1	2556.5	2500.8	2412.3	2338.3	2245.4	2146.7
22.5°	2688.6	2688.8	2684.0	2669.3	2641.0	2604.1	2547.9	2474.1	2384.4	2283.3	2184.6
25°	2612.1	2609.6	2615.3	2631.8	2621.0	2609.6	2577.4	2522.4	2438.9	2331.9	2225.7
27.5°	2328.3	2345.7	2377.9	2418.4	2457.3	2487.1	2495.5	2484.1	2432.4	2344.5	2233.2
30°	2123.9	2145.4	2169.5	2209.9	2288.4	2333.2	2382.6	2419.9	2399.0	2328.9	2225.1
32.5°	1899.3	1904.6	1940.2	1986.2	2058.1	2144.5	2222.7	2298.4	2323.6	2286.8	2200.3
35°	1544.5	1553.4	1592.0	1637.5	1725.5	1831.1	1948.7	2053.7	2140.3	2175.1	2130.8
37.5°	1260.4	1285.9	1313.0	1362.0	1439.4	1534.5	1656.8	1792.6	1921.8	2008.3	2022.9
40°	1125.8	1141.6	1161.3	1198.6	1264.3	1358.0	1462.9	1618.5	1755.8	1879.8	1920.2
42.5°	1019.5	1028.8	1040.8	1074.6	1124.7	1217.8	1313.7	1450.6	1588.3	1736.5	1804.4
45°	866.5	876.0	896.2	915.8	953.8	1018.3	1107.5	1220.0	1358.6	1501.5	1626.7
47.5°	756.0	762.0	774.0	795.0	827.3	869.8	942.4	1036.4	1164.8	1303.5	1437.0
50°	693.2	698.2	707.7	726.7	751.4	789.3	848.8	936.7	1037.3	1177.0	1308.0
52.5°	643.6	645.6	652.6	665.5	685.1	717.0	765.8	838.5	932.0	1056.6	1187.1
55°	566.7	569.3	575.6	585.0	602.1	622.3	659.7	714.1	795.7	903.8	1017.0
57.5°	503.4	505.3	510.6	514.2	528.2	544.7	573.4	612.3	674.1	765.8	866.9
60°	463.0	461.7	468.0	471.2	480.7	494.6	516.7	554.1	607.8	681.8	774.8
62.5°	423.5	421.8	427.1	431.3	436.7	448.5	466.7	495.9	539.5	606.4	686.7
65°	364.3	361.8	365.0	370.0	375.1	381.4	394.7	420.6	455.4	503.4	564.8
67.5°	304.8	307.5	308.0	310.5	313.5	322.1	331.1	349.5	374.1	412.5	464.5
70°	269.4	270.1	272.6	272.6	274.5	282.1	289.7	300.4	324.5	359.9	402.3
72.5°	234.0	236.7	235.7	237.7	239.1	244.2	249.7	259.9	280.4	306.7	342.5
75°	182.1	184.0	184.0	184.7	186.6	188.5	192.9	200.5	215.1	234.6	259.3
77.5°	132.8	133.1	134.0	136.3	136.3	139.3	142.6	148.6	155.8	169.3	184.3
80°	102.4	103.7	103.1	104.3	104.3	106.9	108.1	115.7	118.9	127.8	139.7
82.5°	75.2	76.4	76.3	78.0	79.1	79.5	81.4	84.4	87.5	95.4	100.3
85°	37.9	39.2	37.9	39.2	41.1	41.7	43.6	44.3	46.8	48.7	53.2
87.5°	15.9	17.4	17.3	17.7	18.7	19.1	19.3	18.6	20.4	20.8	22.5
90°	24.1	23.7	23.4	23.0	22.7	21.9	20.8	19.8	18.7	17.7	16.2
92.5°	35.6	35.4	35.2	35.0	34.8	34.4	33.7	33.0	32.4	31.8	30.8
95°	63.4	63.4	63.4	63.4	63.4	63.1	62.6	62.0	61.6	61.0	59.7
97.5°	99.3	99.3	99.3	99.3	99.3	99.0	98.4	97.8	97.1	96.5	95.0
100°	124.4	124.4	124.4	124.4	124.4	124.2	123.8	123.5	123.1	122.8	121.2
102.5°	152.7	152.5	152.3	152.2	152.1	151.8	151.2	150.8	150.3	149.7	148.3
105°	195.8	195.3	194.7	194.2	193.7	193.1	192.6	192.1	191.5	191.0	190.3
107.5°	237.9	237.9	238.0	238.0	238.0	237.8	237.3	236.8	236.3	235.8	235.7
110°	268.1	267.5	267.0	266.4	265.9	265.8	266.2	266.5	266.9	267.2	267.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	298.9	298.7	298.7	298.6	298.4	298.4	298.5	298.6	298.7	298.7	299.0
115°	346.7	346.9	347.1	347.2	347.4	347.6	347.8	347.9	348.1	348.3	348.6
117.5°	392.3	392.6	393.0	393.3	393.7	394.2	394.7	395.4	396.0	396.6	396.9
120°	426.9	426.6	426.2	425.9	425.5	425.8	426.7	427.5	428.5	429.4	429.9
122.5°	455.8	456.5	457.1	457.7	458.4	459.0	459.6	460.3	460.8	461.4	461.7
125°	505.6	506.0	506.3	506.7	507.0	507.4	507.7	508.1	508.4	508.8	509.0
127.5°	551.7	551.9	552.2	552.5	552.8	553.1	553.5	553.8	554.2	554.5	554.8
130°	581.9	582.6	583.3	584.0	584.7	585.2	585.6	585.9	586.3	586.6	586.6
132.5°	613.9	614.2	614.5	614.8	615.1	615.4	615.8	616.1	616.5	616.8	617.0
135°	658.1	658.6	659.1	659.7	660.2	660.7	661.0	661.4	661.7	662.1	662.1
137.5°	704.4	704.3	704.3	704.1	704.0	704.2	704.6	705.1	705.6	706.1	705.8
140°	732.7	732.8	733.1	733.2	733.4	733.6	733.8	734.0	734.1	734.3	734.3
142.5°	761.0	761.0	761.0	761.0	761.0	761.1	761.1	761.2	761.2	761.3	761.4
145°	799.3	799.9	800.3	800.9	801.5	801.8	802.0	802.2	802.3	802.5	802.3
147.5°	838.1	838.3	838.5	838.7	838.8	839.0	839.2	839.3	839.5	839.6	839.7
150°	861.9	862.1	862.3	862.4	862.6	862.7	862.7	862.7	862.7	862.7	862.7
152.5°	883.8	884.2	884.6	885.1	885.6	885.6	885.2	884.7	884.3	883.9	883.8
155°	914.1	914.8	915.5	916.2	917.0	917.0	916.2	915.5	914.8	914.1	914.3
157.5°	941.2	941.8	942.4	943.0	943.6	943.6	943.1	942.6	942.1	941.5	941.5
160°	956.6	957.5	958.4	959.3	960.1	960.4	959.8	959.3	958.7	958.2	958.4
162.5°	972.6	973.5	974.5	975.3	976.2	976.2	975.2	974.2	973.3	972.3	972.5
165°	993.5	994.2	994.9	995.6	996.3	996.2	995.1	994.0	993.0	991.9	992.3
167.5°	1008.4	1009.6	1010.7	1011.8	1012.9	1012.9	1011.8	1010.7	1009.6	1008.6	1008.5
170°	1016.8	1018.0	1019.3	1020.6	1021.8	1021.8	1020.8	1019.7	1018.7	1017.6	1017.4
172.5°	1023.8	1025.1	1026.4	1027.6	1028.8	1028.9	1027.6	1026.4	1025.2	1024.0	1024.0
175°	1031.3	1032.5	1033.7	1035.0	1036.3	1036.3	1035.0	1033.7	1032.5	1031.3	1031.4
177.5°	1035.1	1036.3	1037.4	1038.5	1039.7	1039.7	1038.7	1037.8	1036.7	1035.7	1035.7
180°	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1575.9	1568.8	1563.8	1559.7	1548.6	1542.0	1536.9	1529.9	1521.8	1513.1	1502.5
5°	1665.3	1643.9	1628.0	1604.0	1581.2	1562.3	1542.6	1525.0	1503.4	1480.0	1462.9
7.5°	1759.4	1727.4	1686.3	1650.8	1610.8	1576.0	1544.9	1513.1	1479.9	1447.8	1418.3
10°	1819.0	1777.9	1732.3	1678.6	1628.0	1583.1	1541.3	1500.9	1461.7	1422.4	1388.9
12.5°	1883.3	1832.1	1764.7	1701.9	1645.2	1585.2	1534.8	1485.2	1437.9	1396.7	1357.6
15°	1969.6	1895.5	1817.7	1733.6	1659.0	1588.8	1519.9	1457.2	1404.1	1349.7	1311.8
17.5°	2022.6	1931.0	1842.1	1754.1	1663.8	1575.3	1500.9	1428.7	1362.2	1308.1	1260.3
20°	2057.5	1966.4	1855.7	1767.8	1660.3	1569.2	1483.2	1402.9	1333.3	1275.7	1226.4
22.5°	2087.9	1982.6	1871.9	1756.2	1649.2	1552.5	1458.4	1377.5	1306.5	1245.9	1198.6
25°	2104.3	1983.5	1863.3	1748.2	1626.7	1512.3	1426.9	1332.1	1256.1	1192.2	1141.6
27.5°	2106.1	1976.9	1841.0	1713.0	1587.7	1481.1	1373.2	1288.5	1209.7	1142.2	1093.6
30°	2100.5	1965.8	1819.6	1681.2	1555.3	1439.6	1345.9	1253.6	1173.3	1106.2	1055.6
32.5°	2082.8	1942.5	1792.3	1645.8	1515.3	1402.1	1305.4	1217.7	1139.4	1073.3	1020.2
35°	2031.6	1893.0	1733.0	1580.6	1447.2	1332.7	1245.4	1156.2	1077.8	1015.2	963.9
37.5°	1951.5	1826.2	1663.6	1505.9	1374.8	1259.8	1173.3	1092.7	1022.0	958.4	905.9
40°	1881.7	1771.6	1608.4	1454.7	1313.0	1203.6	1122.7	1048.7	978.4	918.4	868.4
42.5°	1801.2	1705.3	1554.8	1391.9	1255.4	1145.4	1066.5	1000.1	933.9	878.4	828.5
45°	1657.7	1594.5	1452.9	1302.3	1160.0	1056.2	981.0	922.8	867.1	812.8	771.0
47.5°	1492.8	1461.4	1342.1	1199.2	1064.1	961.9	896.6	842.9	794.0	748.0	711.1
50°	1382.0	1366.8	1263.7	1125.8	996.8	900.6	834.9	788.7	746.9	706.5	671.7
52.5°	1272.7	1272.2	1179.2	1053.0	933.6	841.0	775.7	732.5	696.4	663.5	632.2
55°	1105.6	1123.3	1050.6	937.9	831.1	747.6	688.8	650.2	624.9	597.7	574.3
57.5°	952.1	981.5	921.5	822.4	733.2	656.2	605.1	576.1	549.1	532.7	515.6
60°	852.0	879.8	833.0	749.5	665.4	599.6	550.9	525.0	501.5	490.2	478.2
62.5°	762.9	787.7	753.0	675.7	602.6	539.4	498.3	473.3	457.6	445.1	437.2
65°	635.6	656.6	626.8	570.5	507.9	457.3	423.7	404.2	389.0	383.9	375.1
67.5°	513.8	532.8	516.7	468.9	418.7	380.4	354.2	335.3	326.4	321.9	315.6
70°	441.5	460.4	443.4	401.6	363.1	330.8	306.1	295.4	285.9	284.0	275.1
72.5°	380.2	393.2	376.0	343.4	310.5	283.2	264.1	252.9	248.0	244.5	239.7
75°	285.3	296.7	285.3	259.9	236.5	217.6	201.1	196.7	191.0	189.1	185.9
77.5°	201.9	211.8	203.0	187.2	169.8	155.1	146.2	140.5	139.3	136.0	137.5
80°	154.3	160.7	152.4	141.6	127.8	117.6	111.3	108.1	104.3	103.1	105.6
82.5°	110.8	113.6	109.4	102.2	91.8	85.2	81.0	77.3	76.5	76.8	76.8
85°	57.6	57.0	56.3	50.0	46.8	42.4	39.8	39.2	38.6	39.8	41.1
87.5°	22.2	22.4	21.6	19.3	17.3	15.4	14.5	13.6	14.5	15.4	16.3
90°	14.8	13.4	12.0	10.2	8.3	6.3	4.4	2.4	4.4	6.3	8.3
92.5°	29.8	28.8	27.8	26.1	23.9	21.7	19.4	17.2	19.4	21.7	23.9
95°	58.5	57.3	56.0	54.6	53.0	51.3	49.7	48.2	49.7	51.3	53.0
97.5°	93.6	92.1	90.6	89.3	87.9	86.7	85.4	84.1	85.4	86.7	87.9
100°	119.5	118.0	116.4	115.2	114.5	113.8	113.0	112.3	113.0	113.8	114.5
102.5°	146.8	145.4	143.9	143.0	142.8	142.4	142.2	141.9	142.2	142.4	142.8
105°	189.6	188.9	188.1	187.7	187.5	187.4	187.2	187.0	187.2	187.4	187.5
107.5°	235.6	235.4	235.4	235.2	235.0	234.7	234.6	234.3	234.6	234.7	235.0
110°	267.6	267.8	267.9	267.8	267.5	267.1	266.8	266.4	266.8	267.1	267.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	299.4	299.7	300.0	300.1	300.0	300.0	299.9	299.8	299.9	300.0	300.0
115°	349.0	349.4	349.7	349.9	349.9	349.9	349.9	349.9	349.9	349.9	349.9
117.5°	397.1	397.4	397.6	397.7	397.5	397.4	397.2	397.1	397.2	397.4	397.5
120°	430.4	430.9	431.5	431.4	430.7	430.0	429.3	428.6	429.3	430.0	430.7
122.5°	461.9	462.2	462.5	462.4	462.2	461.8	461.6	461.3	461.6	461.8	462.2
125°	509.1	509.3	509.5	509.6	509.6	509.6	509.6	509.6	509.6	509.6	509.6
127.5°	555.1	555.4	555.7	555.6	555.0	554.4	554.0	553.4	554.0	554.4	555.0
130°	586.6	586.6	586.6	586.4	585.8	585.3	584.8	584.2	584.8	585.3	585.8
132.5°	617.1	617.3	617.3	617.3	616.9	616.5	616.1	615.7	616.1	616.5	616.9
135°	662.1	662.1	662.1	661.6	660.4	659.4	658.3	657.3	658.3	659.4	660.4
137.5°	705.5	705.2	704.9	704.5	704.0	703.5	703.0	702.5	703.0	703.5	704.0
140°	734.3	734.3	734.3	734.1	733.8	733.4	733.1	732.7	733.1	733.4	733.8
142.5°	761.5	761.7	761.8	761.8	761.4	761.0	760.7	760.3	760.7	761.0	761.4
145°	802.2	802.0	801.8	801.4	800.7	799.9	799.2	798.5	799.2	799.9	800.7
147.5°	839.9	840.0	840.2	839.8	838.9	838.1	837.3	836.4	837.3	838.1	838.9
150°	862.7	862.7	862.7	862.4	861.7	860.9	860.2	859.5	860.2	860.9	861.7
152.5°	883.6	883.4	883.3	883.0	882.6	882.2	881.8	881.3	881.8	882.2	882.6
155°	914.4	914.6	914.8	914.9	914.9	914.9	914.9	914.9	914.9	914.9	914.9
157.5°	941.6	941.6	941.7	941.8	942.1	942.5	942.8	943.1	942.8	942.5	942.1
160°	958.5	958.7	958.9	959.1	959.3	959.4	959.6	959.8	959.6	959.4	959.3
162.5°	972.7	972.9	973.0	973.4	973.8	974.3	974.8	975.2	974.8	974.3	973.8
165°	992.6	993.0	993.3	993.8	994.3	994.8	995.4	995.9	995.4	994.8	994.3
167.5°	1008.5	1008.5	1008.4	1008.8	1009.6	1010.3	1011.1	1011.8	1011.1	1010.3	1009.6
170°	1017.2	1017.1	1016.8	1017.2	1018.1	1019.0	1019.9	1020.8	1019.9	1019.0	1018.1
172.5°	1024.0	1023.9	1023.9	1024.2	1025.0	1025.7	1026.4	1027.2	1026.4	1025.7	1025.0
175°	1031.6	1031.7	1032.0	1032.5	1033.4	1034.3	1035.1	1036.0	1035.1	1034.3	1033.4
177.5°	1035.7	1035.7	1035.7	1036.1	1036.8	1037.5	1038.2	1038.9	1038.2	1037.5	1036.8
180°	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1497.5	1492.9	1486.4	1477.3	1469.7	1461.6	1459.5	1456.5	1462.5	1457.5	1456.0
5°	1448.4	1435.1	1418.0	1398.4	1387.0	1370.6	1367.5	1361.1	1354.8	1354.2	1347.8
7.5°	1396.4	1376.9	1354.6	1334.5	1316.1	1298.1	1286.3	1283.8	1274.5	1269.0	1262.7
10°	1363.0	1338.9	1313.0	1294.1	1272.6	1253.6	1240.3	1232.7	1226.4	1219.4	1213.1
12.5°	1323.6	1298.0	1276.6	1256.1	1230.6	1216.2	1194.3	1181.1	1179.9	1180.0	1163.6
15°	1277.6	1252.4	1219.4	1190.3	1176.4	1148.6	1136.5	1121.4	1111.9	1102.4	1094.9
17.5°	1225.1	1193.7	1167.9	1134.6	1108.0	1085.8	1070.1	1061.0	1046.6	1033.2	1023.5
20°	1192.2	1158.7	1131.6	1096.1	1067.0	1039.8	1026.5	1013.9	1003.1	991.7	981.0
22.5°	1158.8	1123.8	1090.5	1056.1	1029.0	1000.4	987.5	970.3	960.1	953.8	943.0
25°	1106.2	1068.3	1030.3	997.4	969.6	944.3	927.2	913.9	902.5	897.5	890.6
27.5°	1049.0	1011.4	974.7	937.3	905.7	887.4	873.7	863.7	857.1	850.4	847.3
30°	1012.6	973.4	934.2	899.4	870.3	852.0	839.3	832.3	827.3	824.1	820.9
32.5°	975.7	937.0	895.7	864.0	837.9	821.6	812.0	805.0	802.5	801.4	800.3
35°	916.5	877.3	839.3	810.9	786.2	779.8	771.7	767.9	766.6	771.0	772.9
37.5°	859.2	822.8	787.8	760.3	744.1	734.8	732.1	732.1	736.7	740.6	745.2
40°	822.2	786.8	753.9	729.9	714.7	709.0	707.7	710.9	716.0	720.4	725.5
42.5°	786.3	751.4	721.5	699.0	688.4	683.2	684.0	687.1	694.2	699.7	707.3
45°	730.6	701.4	672.3	654.0	645.2	646.4	646.4	652.1	659.0	667.3	675.5
47.5°	678.0	648.7	624.8	609.3	604.8	603.6	607.2	614.7	624.6	634.8	646.3
50°	642.6	614.8	593.9	580.0	575.0	576.9	581.9	588.8	600.9	613.5	625.5
52.5°	606.7	581.4	562.1	549.1	545.6	549.0	554.1	565.1	575.6	589.2	603.8
55°	550.9	529.4	514.2	504.7	503.4	505.3	511.0	523.1	538.2	555.3	569.3
57.5°	495.4	477.4	463.5	456.9	457.6	459.3	468.7	483.0	499.2	517.4	535.4
60°	457.9	441.5	430.1	425.0	425.6	429.4	440.8	454.2	474.4	492.1	511.0
62.5°	422.5	408.1	397.2	392.7	391.7	400.1	411.0	424.8	445.0	464.8	485.2
65°	365.6	354.2	345.3	342.8	344.7	351.0	365.0	383.3	400.4	421.2	442.8
67.5°	309.9	300.6	294.5	295.6	297.9	307.3	318.9	334.7	354.1	375.7	397.0
70°	274.5	265.6	260.5	261.2	265.0	276.4	286.5	302.3	323.2	345.3	363.1
72.5°	238.1	232.3	227.7	230.4	234.2	242.0	254.6	270.5	288.8	309.4	328.1
75°	182.8	182.8	180.2	182.1	187.8	195.4	204.9	221.3	239.7	256.2	271.3
77.5°	135.6	134.2	135.9	138.2	141.4	150.4	161.3	173.0	186.9	203.3	215.8
80°	103.7	104.3	107.5	111.3	112.6	119.5	130.9	141.6	152.4	166.4	178.4
82.5°	78.0	78.6	80.2	85.0	86.3	93.7	101.1	111.9	121.6	130.9	140.9
85°	42.4	42.4	45.6	47.5	50.6	55.7	60.0	66.4	75.3	81.6	91.1
87.5°	18.2	18.6	20.9	22.2	24.0	26.8	28.0	33.8	36.0	38.8	43.5
90°	10.2	12.0	13.4	14.8	16.2	17.7	18.7	19.8	20.8	21.9	22.7
92.5°	26.1	27.8	28.8	29.8	30.8	31.8	32.4	33.0	33.7	34.4	34.8
95°	54.6	56.0	57.3	58.5	59.7	61.0	61.6	62.0	62.6	63.1	63.4
97.5°	89.3	90.6	92.1	93.6	95.0	96.5	97.1	97.8	98.4	99.0	99.3
100°	115.2	116.4	118.0	119.5	121.2	122.8	123.1	123.5	123.8	124.2	124.4
102.5°	143.0	143.9	145.4	146.8	148.3	149.7	150.3	150.8	151.2	151.8	152.1
105°	187.7	188.1	188.9	189.6	190.3	191.0	191.5	192.1	192.6	193.1	193.7
107.5°	235.2	235.4	235.4	235.6	235.7	235.8	236.3	236.8	237.3	237.8	238.0
110°	267.8	267.9	267.8	267.6	267.4	267.2	266.9	266.5	266.2	265.8	265.9



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	300.1	300.0	299.7	299.4	299.0	298.7	298.7	298.6	298.5	298.4	298.4
115°	349.9	349.7	349.4	349.0	348.6	348.3	348.1	347.9	347.8	347.6	347.4
117.5°	397.7	397.6	397.4	397.1	396.9	396.6	396.0	395.4	394.7	394.2	393.7
120°	431.4	431.5	430.9	430.4	429.9	429.4	428.5	427.5	426.7	425.8	425.5
122.5°	462.4	462.5	462.2	461.9	461.7	461.4	460.8	460.3	459.6	459.0	458.4
125°	509.6	509.5	509.3	509.1	509.0	508.8	508.4	508.1	507.7	507.4	507.0
127.5°	555.6	555.7	555.4	555.1	554.8	554.5	554.2	553.8	553.5	553.1	552.8
130°	586.4	586.6	586.6	586.6	586.6	586.6	586.3	585.9	585.6	585.2	584.7
132.5°	617.3	617.3	617.3	617.1	617.0	616.8	616.5	616.1	615.8	615.4	615.1
135°	661.6	662.1	662.1	662.1	662.1	662.1	661.7	661.4	661.0	660.7	660.2
137.5°	704.5	704.9	705.2	705.5	705.8	706.1	705.6	705.1	704.6	704.2	704.0
140°	734.1	734.3	734.3	734.3	734.3	734.3	734.1	734.0	733.8	733.6	733.4
142.5°	761.8	761.8	761.7	761.5	761.4	761.3	761.2	761.2	761.1	761.1	761.0
145°	801.4	801.8	802.0	802.2	802.3	802.5	802.3	802.2	802.0	801.8	801.5
147.5°	839.8	840.2	840.0	839.9	839.7	839.6	839.5	839.3	839.2	839.0	838.8
150°	862.4	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.7	862.6
152.5°	883.0	883.3	883.4	883.6	883.8	883.9	884.3	884.7	885.2	885.6	885.6
155°	914.9	914.8	914.6	914.4	914.3	914.1	914.8	915.5	916.2	917.0	917.0
157.5°	941.8	941.7	941.6	941.6	941.5	941.5	942.1	942.6	943.1	943.6	943.6
160°	959.1	958.9	958.7	958.5	958.4	958.2	958.7	959.3	959.8	960.4	960.1
162.5°	973.4	973.0	972.9	972.7	972.5	972.3	973.3	974.2	975.2	976.2	976.2
165°	993.8	993.3	993.0	992.6	992.3	991.9	993.0	994.0	995.1	996.2	996.3
167.5°	1008.8	1008.4	1008.5	1008.5	1008.5	1008.6	1009.6	1010.7	1011.8	1012.9	1012.9
170°	1017.2	1016.8	1017.1	1017.2	1017.4	1017.6	1018.7	1019.7	1020.8	1021.8	1021.8
172.5°	1024.2	1023.9	1023.9	1024.0	1024.0	1024.0	1025.2	1026.4	1027.6	1028.9	1028.8
175°	1032.5	1032.0	1031.7	1031.6	1031.4	1031.3	1032.5	1033.7	1035.0	1036.3	1036.3
177.5°	1036.1	1035.7	1035.7	1035.7	1035.7	1035.7	1036.7	1037.8	1038.7	1039.7	1039.7
180°	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7



TEST NUMBER: P332848-927

CATALOG NUMBER: S124DIW-S1195D1050U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1455.0	1454.0	1450.4	1449.9	1450.4	1454.0	1455.0	1456.0	1457.5	1462.5	1456.5
5°	1344.0	1340.8	1338.9	1345.9	1338.9	1340.8	1344.0	1347.8	1354.2	1354.8	1361.1
7.5°	1260.4	1257.9	1252.4	1250.5	1252.4	1257.9	1260.4	1262.7	1269.0	1274.5	1283.8
10°	1206.8	1204.3	1199.2	1197.9	1199.2	1204.3	1206.8	1213.1	1219.4	1226.4	1232.7
12.5°	1155.2	1150.1	1149.1	1150.4	1149.1	1150.1	1155.2	1163.6	1180.0	1179.9	1181.1
15°	1086.6	1084.1	1077.1	1079.0	1077.1	1084.1	1086.6	1094.9	1102.4	1111.9	1121.4
17.5°	1019.1	1016.1	1007.6	1015.0	1007.6	1016.1	1019.1	1023.5	1033.2	1046.6	1061.0
20°	976.5	971.5	967.1	966.5	967.1	971.5	976.5	981.0	991.7	1003.1	1013.9
22.5°	936.0	931.5	931.1	927.0	931.1	931.5	936.0	943.0	953.8	960.1	970.3
25°	885.5	881.1	879.8	876.6	879.8	881.1	885.5	890.6	897.5	902.5	913.9
27.5°	846.7	844.5	842.2	843.2	842.2	844.5	846.7	847.3	850.4	857.1	863.7
30°	822.8	822.2	820.9	820.9	820.9	822.2	822.8	820.9	824.1	827.3	832.3
32.5°	803.1	803.0	803.7	803.7	803.7	803.0	803.1	800.3	801.4	802.5	805.0
35°	775.5	777.3	778.6	776.7	778.6	777.3	775.5	772.9	771.0	766.6	767.9
37.5°	750.4	752.3	754.1	756.2	754.1	752.3	750.4	745.2	740.6	736.7	732.1
40°	731.2	735.6	736.8	740.0	736.8	735.6	731.2	725.5	720.4	716.0	710.9
42.5°	713.0	717.9	721.1	721.8	721.1	717.9	713.0	707.3	699.7	694.2	687.1
45°	685.0	690.1	694.5	694.5	694.5	690.1	685.0	675.5	667.3	659.0	652.1
47.5°	656.0	663.4	667.8	668.9	667.8	663.4	656.0	646.3	634.8	624.6	614.7
50°	636.3	645.2	649.6	652.8	649.6	645.2	636.3	625.5	613.5	600.9	588.8
52.5°	617.0	625.9	631.8	633.5	631.8	625.9	617.0	603.8	589.2	575.6	565.1
55°	583.8	596.4	603.4	605.9	603.4	596.4	583.8	569.3	555.3	538.2	523.1
57.5°	552.4	564.0	572.1	574.0	572.1	564.0	552.4	535.4	517.4	499.2	483.0
60°	528.1	540.7	550.9	552.8	550.9	540.7	528.1	511.0	492.1	474.4	454.2
62.5°	503.4	516.5	525.6	530.5	525.6	516.5	503.4	485.2	464.8	445.0	424.8
65°	460.4	473.7	482.6	484.5	482.6	473.7	460.4	442.8	421.2	400.4	383.3
67.5°	413.7	426.9	432.8	436.4	432.8	426.9	413.7	397.0	375.7	354.1	334.7
70°	380.7	391.5	397.8	401.0	397.8	391.5	380.7	363.1	345.3	323.2	302.3
72.5°	343.3	354.6	361.9	362.5	361.9	354.6	343.3	328.1	309.4	288.8	270.5
75°	285.9	296.0	299.8	299.8	299.8	296.0	285.9	271.3	256.2	239.7	221.3
77.5°	226.3	231.5	236.3	237.3	236.3	231.5	226.3	215.8	203.3	186.9	173.0
80°	187.8	191.0	194.8	194.8	194.8	191.0	187.8	178.4	166.4	152.4	141.6
82.5°	148.4	151.1	154.9	154.3	154.9	151.1	148.4	140.9	130.9	121.6	111.9
85°	89.8	95.5	94.9	93.6	94.9	95.5	89.8	91.1	81.6	75.3	66.4
87.5°	45.1	45.6	47.2	48.3	47.2	45.6	45.1	43.5	38.8	36.0	33.8
90°	23.0	23.4	23.7	24.1	23.7	23.4	23.0	22.7	21.9	20.8	19.8
92.5°	35.0	35.2	35.4	35.6	35.4	35.2	35.0	34.8	34.4	33.7	33.0
95°	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.1	62.6	62.0
97.5°	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.0	98.4	97.8
100°	124.4	124.4	124.4	124.4	124.4	124.4	124.4	124.4	124.2	123.8	123.5
102.5°	152.2	152.3	152.5	152.7	152.5	152.3	152.2	152.1	151.8	151.2	150.8
105°	194.2	194.7	195.3	195.8	195.3	194.7	194.2	193.7	193.1	192.6	192.1
107.5°	238.0	238.0	237.9	237.9	237.9	238.0	238.0	238.0	237.8	237.3	236.8
110°	266.4	267.0	267.5	268.1	267.5	267.0	266.4	265.9	265.8	266.2	266.5



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	298.6	298.7	298.7	298.9	298.7	298.7	298.6	298.4	298.4	298.5	298.6
115°	347.2	347.1	346.9	346.7	346.9	347.1	347.2	347.4	347.6	347.8	347.9
117.5°	393.3	393.0	392.6	392.3	392.6	393.0	393.3	393.7	394.2	394.7	395.4
120°	425.9	426.2	426.6	426.9	426.6	426.2	425.9	425.5	425.8	426.7	427.5
122.5°	457.7	457.1	456.5	455.8	456.5	457.1	457.7	458.4	459.0	459.6	460.3
125°	506.7	506.3	506.0	505.6	506.0	506.3	506.7	507.0	507.4	507.7	508.1
127.5°	552.5	552.2	551.9	551.7	551.9	552.2	552.5	552.8	553.1	553.5	553.8
130°	584.0	583.3	582.6	581.9	582.6	583.3	584.0	584.7	585.2	585.6	585.9
132.5°	614.8	614.5	614.2	613.9	614.2	614.5	614.8	615.1	615.4	615.8	616.1
135°	659.7	659.1	658.6	658.1	658.6	659.1	659.7	660.2	660.7	661.0	661.4
137.5°	704.1	704.3	704.3	704.4	704.3	704.3	704.1	704.0	704.2	704.6	705.1
140°	733.2	733.1	732.8	732.7	732.8	733.1	733.2	733.4	733.6	733.8	734.0
142.5°	761.0	761.0	761.0	761.0	761.0	761.0	761.0	761.0	761.1	761.1	761.2
145°	800.9	800.3	799.9	799.3	799.9	800.3	800.9	801.5	801.8	802.0	802.2
147.5°	838.7	838.5	838.3	838.1	838.3	838.5	838.7	838.8	839.0	839.2	839.3
150°	862.4	862.3	862.1	861.9	862.1	862.3	862.4	862.6	862.7	862.7	862.7
152.5°	885.1	884.6	884.2	883.8	884.2	884.6	885.1	885.6	885.6	885.2	884.7
155°	916.2	915.5	914.8	914.1	914.8	915.5	916.2	917.0	917.0	916.2	915.5
157.5°	943.0	942.4	941.8	941.2	941.8	942.4	943.0	943.6	943.6	943.1	942.6
160°	959.3	958.4	957.5	956.6	957.5	958.4	959.3	960.1	960.4	959.8	959.3
162.5°	975.3	974.5	973.5	972.6	973.5	974.5	975.3	976.2	976.2	975.2	974.2
165°	995.6	994.9	994.2	993.5	994.2	994.9	995.6	996.3	996.2	995.1	994.0
167.5°	1011.8	1010.7	1009.6	1008.4	1009.6	1010.7	1011.8	1012.9	1012.9	1011.8	1010.7
170°	1020.6	1019.3	1018.0	1016.8	1018.0	1019.3	1020.6	1021.8	1021.8	1020.8	1019.7
172.5°	1027.6	1026.4	1025.1	1023.8	1025.1	1026.4	1027.6	1028.8	1028.9	1027.6	1026.4
175°	1035.0	1033.7	1032.5	1031.3	1032.5	1033.7	1035.0	1036.3	1036.3	1035.0	1033.7
177.5°	1038.5	1037.4	1036.3	1035.1	1036.3	1037.4	1038.5	1039.7	1039.7	1038.7	1037.8
180°	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1459.5	1461.6	1469.7	1477.3	1486.4	1492.9	1497.5	1502.5	1513.1	1521.8	1529.9
5°	1367.5	1370.6	1387.0	1398.4	1418.0	1435.1	1448.4	1462.9	1480.0	1503.4	1525.0
7.5°	1286.3	1298.1	1316.1	1334.5	1354.6	1376.9	1396.4	1418.3	1447.8	1479.9	1513.1
10°	1240.3	1253.6	1272.6	1294.1	1313.0	1338.9	1363.0	1388.9	1422.4	1461.7	1500.9
12.5°	1194.3	1216.2	1230.6	1256.1	1276.6	1298.0	1323.6	1357.6	1396.7	1437.9	1485.2
15°	1136.5	1148.6	1176.4	1190.3	1219.4	1252.4	1277.6	1311.8	1349.7	1404.1	1457.2
17.5°	1070.1	1085.8	1108.0	1134.6	1167.9	1193.7	1225.1	1260.3	1308.1	1362.2	1428.7
20°	1026.5	1039.8	1067.0	1096.1	1131.6	1158.7	1192.2	1226.4	1275.7	1333.3	1402.9
22.5°	987.5	1000.4	1029.0	1056.1	1090.5	1123.8	1158.8	1198.6	1245.9	1306.5	1377.5
25°	927.2	944.3	969.6	997.4	1030.3	1068.3	1106.2	1141.6	1192.2	1256.1	1332.1
27.5°	873.7	887.4	905.7	937.3	974.7	1011.4	1049.0	1093.6	1142.2	1209.7	1288.5
30°	839.3	852.0	870.3	899.4	934.2	973.4	1012.6	1055.6	1106.2	1173.3	1253.6
32.5°	812.0	821.6	837.9	864.0	895.7	937.0	975.7	1020.2	1073.3	1139.4	1217.7
35°	771.7	779.8	786.2	810.9	839.3	877.3	916.5	963.9	1015.2	1077.8	1156.2
37.5°	732.1	734.8	744.1	760.3	787.8	822.8	859.2	905.9	958.4	1022.0	1092.7
40°	707.7	709.0	714.7	729.9	753.9	786.8	822.2	868.4	918.4	978.4	1048.7
42.5°	684.0	683.2	688.4	699.0	721.5	751.4	786.3	828.5	878.4	933.9	1000.1
45°	646.4	646.4	645.2	654.0	672.3	701.4	730.6	771.0	812.8	867.1	922.8
47.5°	607.2	603.6	604.8	609.3	624.8	648.7	678.0	711.1	748.0	794.0	842.9
50°	581.9	576.9	575.0	580.0	593.9	614.8	642.6	671.7	706.5	746.9	788.7
52.5°	554.1	549.0	545.6	549.1	562.1	581.4	606.7	632.2	663.5	696.4	732.5
55°	511.0	505.3	503.4	504.7	514.2	529.4	550.9	574.3	597.7	624.9	650.2
57.5°	468.7	459.3	457.6	456.9	463.5	477.4	495.4	515.6	532.7	549.1	576.1
60°	440.8	429.4	425.6	425.0	430.1	441.5	457.9	478.2	490.2	501.5	525.0
62.5°	411.0	400.1	391.7	392.7	397.2	408.1	422.5	437.2	445.1	457.6	473.3
65°	365.0	351.0	344.7	342.8	345.3	354.2	365.6	375.1	383.9	389.0	404.2
67.5°	318.9	307.3	297.9	295.6	294.5	300.6	309.9	315.6	321.9	326.4	335.3
70°	286.5	276.4	265.0	261.2	260.5	265.6	274.5	275.1	284.0	285.9	295.4
72.5°	254.6	242.0	234.2	230.4	227.7	232.3	238.1	239.7	244.5	248.0	252.9
75°	204.9	195.4	187.8	182.1	180.2	182.8	182.8	185.9	189.1	191.0	196.7
77.5°	161.3	150.4	141.4	138.2	135.9	134.2	135.6	137.5	136.0	139.3	140.5
80°	130.9	119.5	112.6	111.3	107.5	104.3	103.7	105.6	103.1	104.3	108.1
82.5°	101.1	93.7	86.3	85.0	80.2	78.6	78.0	76.8	76.8	76.5	77.3
85°	60.0	55.7	50.6	47.5	45.6	42.4	42.4	41.1	39.8	38.6	39.2
87.5°	28.0	26.8	24.0	22.2	20.9	18.6	18.2	16.3	15.4	14.5	13.6
90°	18.7	17.7	16.2	14.8	13.4	12.0	10.2	8.3	6.3	4.4	2.4
92.5°	32.4	31.8	30.8	29.8	28.8	27.8	26.1	23.9	21.7	19.4	17.2
95°	61.6	61.0	59.7	58.5	57.3	56.0	54.6	53.0	51.3	49.7	48.2
97.5°	97.1	96.5	95.0	93.6	92.1	90.6	89.3	87.9	86.7	85.4	84.1
100°	123.1	122.8	121.2	119.5	118.0	116.4	115.2	114.5	113.8	113.0	112.3
102.5°	150.3	149.7	148.3	146.8	145.4	143.9	143.0	142.8	142.4	142.2	141.9
105°	191.5	191.0	190.3	189.6	188.9	188.1	187.7	187.5	187.4	187.2	187.0
107.5°	236.3	235.8	235.7	235.6	235.4	235.4	235.2	235.0	234.7	234.6	234.3
110°	266.9	267.2	267.4	267.6	267.8	267.9	267.8	267.5	267.1	266.8	266.4



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	298.7	298.7	299.0	299.4	299.7	300.0	300.1	300.0	300.0	299.9	299.8
115°	348.1	348.3	348.6	349.0	349.4	349.7	349.9	349.9	349.9	349.9	349.9
117.5°	396.0	396.6	396.9	397.1	397.4	397.6	397.7	397.5	397.4	397.2	397.1
120°	428.5	429.4	429.9	430.4	430.9	431.5	431.4	430.7	430.0	429.3	428.6
122.5°	460.8	461.4	461.7	461.9	462.2	462.5	462.4	462.2	461.8	461.6	461.3
125°	508.4	508.8	509.0	509.1	509.3	509.5	509.6	509.6	509.6	509.6	509.6
127.5°	554.2	554.5	554.8	555.1	555.4	555.7	555.6	555.0	554.4	554.0	553.4
130°	586.3	586.6	586.6	586.6	586.6	586.6	586.4	585.8	585.3	584.8	584.2
132.5°	616.5	616.8	617.0	617.1	617.3	617.3	617.3	616.9	616.5	616.1	615.7
135°	661.7	662.1	662.1	662.1	662.1	662.1	661.6	660.4	659.4	658.3	657.3
137.5°	705.6	706.1	705.8	705.5	705.2	704.9	704.5	704.0	703.5	703.0	702.5
140°	734.1	734.3	734.3	734.3	734.3	734.3	734.1	733.8	733.4	733.1	732.7
142.5°	761.2	761.3	761.4	761.5	761.7	761.8	761.8	761.4	761.0	760.7	760.3
145°	802.3	802.5	802.3	802.2	802.0	801.8	801.4	800.7	799.9	799.2	798.5
147.5°	839.5	839.6	839.7	839.9	840.0	840.2	839.8	838.9	838.1	837.3	836.4
150°	862.7	862.7	862.7	862.7	862.7	862.7	862.4	861.7	860.9	860.2	859.5
152.5°	884.3	883.9	883.8	883.6	883.4	883.3	883.0	882.6	882.2	881.8	881.3
155°	914.8	914.1	914.3	914.4	914.6	914.8	914.9	914.9	914.9	914.9	914.9
157.5°	942.1	941.5	941.5	941.6	941.6	941.7	941.8	942.1	942.5	942.8	943.1
160°	958.7	958.2	958.4	958.5	958.7	958.9	959.1	959.3	959.4	959.6	959.8
162.5°	973.3	972.3	972.5	972.7	972.9	973.0	973.4	973.8	974.3	974.8	975.2
165°	993.0	991.9	992.3	992.6	993.0	993.3	993.8	994.3	994.8	995.4	995.9
167.5°	1009.6	1008.6	1008.5	1008.5	1008.5	1008.4	1008.8	1009.6	1010.3	1011.1	1011.8
170°	1018.7	1017.6	1017.4	1017.2	1017.1	1016.8	1017.2	1018.1	1019.0	1019.9	1020.8
172.5°	1025.2	1024.0	1024.0	1024.0	1023.9	1023.9	1024.2	1025.0	1025.7	1026.4	1027.2
175°	1032.5	1031.3	1031.4	1031.6	1031.7	1032.0	1032.5	1033.4	1034.3	1035.1	1036.0
177.5°	1036.7	1035.7	1035.7	1035.7	1035.7	1035.7	1036.1	1036.8	1037.5	1038.2	1038.9
180°	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1536.9	1542.0	1548.6	1559.7	1563.8	1568.8	1575.9	1575.4	1577.4	1585.0	1601.2
5°	1542.6	1562.3	1581.2	1604.0	1628.0	1643.9	1665.3	1678.6	1691.9	1709.0	1738.0
7.5°	1544.9	1576.0	1610.8	1650.8	1686.3	1727.4	1759.4	1789.5	1816.6	1852.7	1887.4
10°	1541.3	1583.1	1628.0	1678.6	1732.3	1777.9	1819.0	1865.8	1905.7	1949.3	1988.5
12.5°	1534.8	1585.2	1645.2	1701.9	1764.7	1832.1	1883.3	1930.6	1983.6	2033.8	2094.3
15°	1519.9	1588.8	1659.0	1733.6	1817.7	1895.5	1969.6	2030.9	2087.9	2163.1	2242.2
17.5°	1500.9	1575.3	1663.8	1754.1	1842.1	1931.0	2022.6	2114.8	2186.7	2280.1	2342.0
20°	1483.2	1569.2	1660.3	1767.8	1855.7	1966.4	2057.5	2146.7	2245.4	2338.3	2412.3
22.5°	1458.4	1552.5	1649.2	1756.2	1871.9	1982.6	2087.9	2184.6	2283.3	2384.4	2474.1
25°	1426.9	1512.3	1626.7	1748.2	1863.3	1983.5	2104.3	2225.7	2331.9	2438.9	2522.4
27.5°	1373.2	1481.1	1587.7	1713.0	1841.0	1976.9	2106.1	2233.2	2344.5	2432.4	2484.1
30°	1345.9	1439.6	1555.3	1681.2	1819.6	1965.8	2100.5	2225.1	2328.9	2399.0	2419.9
32.5°	1305.4	1402.1	1515.3	1645.8	1792.3	1942.5	2082.8	2200.3	2286.8	2323.6	2298.4
35°	1245.4	1332.7	1447.2	1580.6	1733.0	1893.0	2031.6	2130.8	2175.1	2140.3	2053.7
37.5°	1173.3	1259.8	1374.8	1505.9	1663.6	1826.2	1951.5	2022.9	2008.3	1921.8	1792.6
40°	1122.7	1203.6	1313.0	1454.7	1608.4	1771.6	1881.7	1920.2	1879.8	1755.8	1618.5
42.5°	1066.5	1145.4	1255.4	1391.9	1554.8	1705.3	1801.2	1804.4	1736.5	1588.3	1450.6
45°	981.0	1056.2	1160.0	1302.3	1452.9	1594.5	1657.7	1626.7	1501.5	1358.6	1220.0
47.5°	896.6	961.9	1064.1	1199.2	1342.1	1461.4	1492.8	1437.0	1303.5	1164.8	1036.4
50°	834.9	900.6	996.8	1125.8	1263.7	1366.8	1382.0	1308.0	1177.0	1037.3	936.7
52.5°	775.7	841.0	933.6	1053.0	1179.2	1272.2	1272.7	1187.1	1056.6	932.0	838.5
55°	688.8	747.6	831.1	937.9	1050.6	1123.3	1105.6	1017.0	903.8	795.7	714.1
57.5°	605.1	656.2	733.2	822.4	921.5	981.5	952.1	866.9	765.8	674.1	612.3
60°	550.9	599.6	665.4	749.5	833.0	879.8	852.0	774.8	681.8	607.8	554.1
62.5°	498.3	539.4	602.6	675.7	753.0	787.7	762.9	686.7	606.4	539.5	495.9
65°	423.7	457.3	507.9	570.5	626.8	656.6	635.6	564.8	503.4	455.4	420.6
67.5°	354.2	380.4	418.7	468.9	516.7	532.8	513.8	464.5	412.5	374.1	349.5
70°	306.1	330.8	363.1	401.6	443.4	460.4	441.5	402.3	359.9	324.5	300.4
72.5°	264.1	283.2	310.5	343.4	376.0	393.2	380.2	342.5	306.7	280.4	259.9
75°	201.1	217.6	236.5	259.9	285.3	296.7	285.3	259.3	234.6	215.1	200.5
77.5°	146.2	155.1	169.8	187.2	203.0	211.8	201.9	184.3	169.3	155.8	148.6
80°	111.3	117.6	127.8	141.6	152.4	160.7	154.3	139.7	127.8	118.9	115.7
82.5°	81.0	85.2	91.8	102.2	109.4	113.6	110.8	100.3	95.4	87.5	84.4
85°	39.8	42.4	46.8	50.0	56.3	57.0	57.6	53.2	48.7	46.8	44.3
87.5°	14.5	15.4	17.3	19.3	21.6	22.4	22.2	22.5	20.8	20.4	18.6
90°	4.4	6.3	8.3	10.2	12.0	13.4	14.8	16.2	17.7	18.7	19.8
92.5°	19.4	21.7	23.9	26.1	27.8	28.8	29.8	30.8	31.8	32.4	33.0
95°	49.7	51.3	53.0	54.6	56.0	57.3	58.5	59.7	61.0	61.6	62.0
97.5°	85.4	86.7	87.9	89.3	90.6	92.1	93.6	95.0	96.5	97.1	97.8
100°	113.0	113.8	114.5	115.2	116.4	118.0	119.5	121.2	122.8	123.1	123.5
102.5°	142.2	142.4	142.8	143.0	143.9	145.4	146.8	148.3	149.7	150.3	150.8
105°	187.2	187.4	187.5	187.7	188.1	188.9	189.6	190.3	191.0	191.5	192.1
107.5°	234.6	234.7	235.0	235.2	235.4	235.4	235.6	235.7	235.8	236.3	236.8
110°	266.8	267.1	267.5	267.8	267.9	267.8	267.6	267.4	267.2	266.9	266.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	299.9	300.0	300.0	300.1	300.0	299.7	299.4	299.0	298.7	298.7	298.6
115°	349.9	349.9	349.9	349.9	349.7	349.4	349.0	348.6	348.3	348.1	347.9
117.5°	397.2	397.4	397.5	397.7	397.6	397.4	397.1	396.9	396.6	396.0	395.4
120°	429.3	430.0	430.7	431.4	431.5	430.9	430.4	429.9	429.4	428.5	427.5
122.5°	461.6	461.8	462.2	462.4	462.5	462.2	461.9	461.7	461.4	460.8	460.3
125°	509.6	509.6	509.6	509.6	509.5	509.3	509.1	509.0	508.8	508.4	508.1
127.5°	554.0	554.4	555.0	555.6	555.7	555.4	555.1	554.8	554.5	554.2	553.8
130°	584.8	585.3	585.8	586.4	586.6	586.6	586.6	586.6	586.6	586.3	585.9
132.5°	616.1	616.5	616.9	617.3	617.3	617.3	617.1	617.0	616.8	616.5	616.1
135°	658.3	659.4	660.4	661.6	662.1	662.1	662.1	662.1	662.1	661.7	661.4
137.5°	703.0	703.5	704.0	704.5	704.9	705.2	705.5	705.8	706.1	705.6	705.1
140°	733.1	733.4	733.8	734.1	734.3	734.3	734.3	734.3	734.3	734.1	734.0
142.5°	760.7	761.0	761.4	761.8	761.8	761.7	761.5	761.4	761.3	761.2	761.2
145°	799.2	799.9	800.7	801.4	801.8	802.0	802.2	802.3	802.5	802.3	802.2
147.5°	837.3	838.1	838.9	839.8	840.2	840.0	839.9	839.7	839.6	839.5	839.3
150°	860.2	860.9	861.7	862.4	862.7	862.7	862.7	862.7	862.7	862.7	862.7
152.5°	881.8	882.2	882.6	883.0	883.3	883.4	883.6	883.8	883.9	884.3	884.7
155°	914.9	914.9	914.9	914.9	914.8	914.6	914.4	914.3	914.1	914.8	915.5
157.5°	942.8	942.5	942.1	941.8	941.7	941.6	941.6	941.5	941.5	942.1	942.6
160°	959.6	959.4	959.3	959.1	958.9	958.7	958.5	958.4	958.2	958.7	959.3
162.5°	974.8	974.3	973.8	973.4	973.0	972.9	972.7	972.5	972.3	973.3	974.2
165°	995.4	994.8	994.3	993.8	993.3	993.0	992.6	992.3	991.9	993.0	994.0
167.5°	1011.1	1010.3	1009.6	1008.8	1008.4	1008.5	1008.5	1008.5	1008.6	1009.6	1010.7
170°	1019.9	1019.0	1018.1	1017.2	1016.8	1017.1	1017.2	1017.4	1017.6	1018.7	1019.7
172.5°	1026.4	1025.7	1025.0	1024.2	1023.9	1023.9	1024.0	1024.0	1024.0	1025.2	1026.4
175°	1035.1	1034.3	1033.4	1032.5	1032.0	1031.7	1031.6	1031.4	1031.3	1032.5	1033.7
177.5°	1038.2	1037.5	1036.8	1036.1	1035.7	1035.7	1035.7	1035.7	1035.7	1036.7	1037.8
180°	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1609.3	1610.3	1614.9	1618.4	1619.5	1624.4	1625.0
5°	1750.7	1761.5	1782.3	1784.2	1787.4	1803.9	1791.2
7.5°	1916.4	1943.8	1962.0	1978.1	1983.9	1991.1	1989.6
10°	2022.7	2063.2	2083.4	2115.7	2116.9	2125.2	2120.1
12.5°	2129.5	2176.5	2213.4	2219.4	2246.5	2250.7	2257.7
15°	2280.8	2330.7	2381.9	2400.3	2437.6	2446.5	2460.4
17.5°	2423.0	2474.1	2510.0	2557.4	2572.7	2593.2	2579.3
20°	2500.8	2556.5	2602.1	2639.4	2655.2	2666.6	2665.3
22.5°	2547.9	2604.1	2641.0	2669.3	2684.0	2688.8	2688.6
25°	2577.4	2609.6	2621.0	2631.8	2615.3	2609.6	2612.1
27.5°	2495.5	2487.1	2457.3	2418.4	2377.9	2345.7	2328.3
30°	2382.6	2333.2	2288.4	2209.9	2169.5	2145.4	2123.9
32.5°	2222.7	2144.5	2058.1	1986.2	1940.2	1904.6	1899.3
35°	1948.7	1831.1	1725.5	1637.5	1592.0	1553.4	1544.5
37.5°	1656.8	1534.5	1439.4	1362.0	1313.0	1285.9	1260.4
40°	1462.9	1358.0	1264.3	1198.6	1161.3	1141.6	1125.8
42.5°	1313.7	1217.8	1124.7	1074.6	1040.8	1028.8	1019.5
45°	1107.5	1018.3	953.8	915.8	896.2	876.0	866.5
47.5°	942.4	869.8	827.3	795.0	774.0	762.0	756.0
50°	848.8	789.3	751.4	726.7	707.7	698.2	693.2
52.5°	765.8	717.0	685.1	665.5	652.6	645.6	643.6
55°	659.7	622.3	602.1	585.0	575.6	569.3	566.7
57.5°	573.4	544.7	528.2	514.2	510.6	505.3	503.4
60°	516.7	494.6	480.7	471.2	468.0	461.7	463.0
62.5°	466.7	448.5	436.7	431.3	427.1	421.8	423.5
65°	394.7	381.4	375.1	370.0	365.0	361.8	364.3
67.5°	331.1	322.1	313.5	310.5	308.0	307.5	304.8
70°	289.7	282.1	274.5	272.6	272.6	270.1	269.4
72.5°	249.7	244.2	239.1	237.7	235.7	236.7	234.0
75°	192.9	188.5	186.6	184.7	184.0	184.0	182.1
77.5°	142.6	139.3	136.3	136.3	134.0	133.1	132.8
80°	108.1	106.9	104.3	104.3	103.1	103.7	102.4
82.5°	81.4	79.5	79.1	78.0	76.3	76.4	75.2
85°	43.6	41.7	41.1	39.2	37.9	39.2	37.9
87.5°	19.3	19.1	18.7	17.7	17.3	17.4	15.9
90°	20.8	21.9	22.7	23.0	23.4	23.7	24.1
92.5°	33.7	34.4	34.8	35.0	35.2	35.4	35.6
95°	62.6	63.1	63.4	63.4	63.4	63.4	63.4
97.5°	98.4	99.0	99.3	99.3	99.3	99.3	99.3
100°	123.8	124.2	124.4	124.4	124.4	124.4	124.4
102.5°	151.2	151.8	152.1	152.2	152.3	152.5	152.7
105°	192.6	193.1	193.7	194.2	194.7	195.3	195.8
107.5°	237.3	237.8	238.0	238.0	238.0	237.9	237.9
110°	266.2	265.8	265.9	266.4	267.0	267.5	268.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	298.5	298.4	298.4	298.6	298.7	298.7	298.9
115°	347.8	347.6	347.4	347.2	347.1	346.9	346.7
117.5°	394.7	394.2	393.7	393.3	393.0	392.6	392.3
120°	426.7	425.8	425.5	425.9	426.2	426.6	426.9
122.5°	459.6	459.0	458.4	457.7	457.1	456.5	455.8
125°	507.7	507.4	507.0	506.7	506.3	506.0	505.6
127.5°	553.5	553.1	552.8	552.5	552.2	551.9	551.7
130°	585.6	585.2	584.7	584.0	583.3	582.6	581.9
132.5°	615.8	615.4	615.1	614.8	614.5	614.2	613.9
135°	661.0	660.7	660.2	659.7	659.1	658.6	658.1
137.5°	704.6	704.2	704.0	704.1	704.3	704.3	704.4
140°	733.8	733.6	733.4	733.2	733.1	732.8	732.7
142.5°	761.1	761.1	761.0	761.0	761.0	761.0	761.0
145°	802.0	801.8	801.5	800.9	800.3	799.9	799.3
147.5°	839.2	839.0	838.8	838.7	838.5	838.3	838.1
150°	862.7	862.7	862.6	862.4	862.3	862.1	861.9
152.5°	885.2	885.6	885.6	885.1	884.6	884.2	883.8
155°	916.2	917.0	917.0	916.2	915.5	914.8	914.1
157.5°	943.1	943.6	943.6	943.0	942.4	941.8	941.2
160°	959.8	960.4	960.1	959.3	958.4	957.5	956.6
162.5°	975.2	976.2	976.2	975.3	974.5	973.5	972.6
165°	995.1	996.2	996.3	995.6	994.9	994.2	993.5
167.5°	1011.8	1012.9	1012.9	1011.8	1010.7	1009.6	1008.4
170°	1020.8	1021.8	1021.8	1020.6	1019.3	1018.0	1016.8
172.5°	1027.6	1028.9	1028.8	1027.6	1026.4	1025.1	1023.8
175°	1035.0	1036.3	1036.3	1035.0	1033.7	1032.5	1031.3
177.5°	1038.7	1039.7	1039.7	1038.5	1037.4	1036.3	1035.1
180°	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7

(END OF REPORT)